

List of Certified Non-Federal AWOS Systems and Vendors as of March 27, 2017

This list is provided to identify manufacturers that provide certified non-Federal AWOS systems as of March 27, 2017. The listed manufacturer's systems have been certified for use by the FAA. Systems not shown on this list are not certified by the FAA and are not an approved source of aviation weather information.

Unless specifically identified otherwise, these systems and vendors have been approved in accordance with Revision C of FAA Advisory Circular 150/5220-16, Automated Weather Observing Systems (AWOS) for Non-Federal Applications, dated December 13, 1999. The current approved revision of this Advisory Circular (AC) is Revision E, dated March 10, 2017.

This list will be updated as needed. It may not be used as the means for determining whether bidders are responsive. Airport sponsors and consultants must verify with the FAA the current list of certified non-Federal AWOS manufacturers and systems when preparing bid documents. (Printed/downloaded copies of this list are not valid for procurement purposes.)

The FAA recommends the guidance and specifications in the current revision of Advisory Circular 150/5220-16 for non-Federal Automated Weather Observing Systems (AWOS). In general, use of this AC is not mandatory. However, the use of the specifications in this AC is mandatory for AWOS projects funded under the Airport Improvement Program (AIP) with revenue from the Passenger Facility Charges (PFC) program or for non-Federal AWOS projects for airports that are obligated to the Airport Sponsor Assurances.

It is strongly recommended that airport sponsors and consultants become familiar with the current revisions of the FAA Non-Federal AWOS Advisory Circular 150/5220-16, the FAA siting order, 6560.20, the 7460-1 obstruction approval process and the system meteorological siting approval process before starting to acquire or install a non-Federal AWOS.

Further information concerning non-Federal AWOS standards and the FAA type certification approval process may be obtained from the AWOS Non-Federal Engineering Office, AJW-144, Non-Federal-Program@faa.gov, 405-954-8427.

Non-Fed AWOS System Definitions ¹	Certified Data ²	All Weather, Inc.	Optical Scientific, Inc. formerly Belfort Instrument Co.	Mesotech International	DBT Transportation Services, formerly Vaisala Inc.
AWOS A	Altimeter setting	X	X ⁵	X	X
AWOS A / V	Altimeter setting, visibility	X ⁴	X ⁵		X ⁴
AWOS I	Wind speed, wind direction, wind gust, variable wind direction, temperature, dew point, altimeter setting, and density altitude	X		X	X
AWOS II	Same as AWOS I plus visibility, and variable visibility	X			X
AWOS III ³	Same as AWOS II plus precipitation accumulation, cloud height, and sky condition	X			X
AWOS III P ³	Same as AWOS III plus present weather identification	X			X
AWOS III T ³	Same as AWOS III plus thunderstorm/lightning reporting	X			X
AWOS III P/T ³	Same as AWOS III plus present weather identification and thunderstorm/lightning reporting	X			X

Non-Fed AWOS System Definitions¹	Certified Data²	All Weather, Inc.	Optical Scientific, Inc. formerly Belfort Instrument Co.	Mesotech International	DBT Transportation Services, formerly Vaisala Inc.
AWOS IV Z ³	Same as AWOS III P/T plus freezing rain detection	X			X
AWOS IV R ³	Same as AWOS III P/T plus runway surface condition				X
AWOS IV Z/R ³	Same as AWOS III P/T plus freezing rain detection and runway surface condition				X

Notes:

- These system definitions are based on information found in FAA Advisory Circular 150/5220-16E, Automated Weather Observing Systems (AWOS) For Non-Federal Applications. This AC also contains site location and implementation criteria that must be adhered to before the installed system can be commissioned and become an approved source of aviation weather information. It also contains maintenance and annual inspection criteria that must be met throughout the system's life cycle in order for the system to continue to be an approved source of aviation weather information.
- In addition to providing the identified certified information, AWOS systems may also provide additional, uncertified ("Advisory") information.
 - Advisory weather parameters are not verified or certified by the FAA.
 - Any uncertified weather information (measured or calculated), e.g. density altitude or wind speed and direction on an AWOS A system, is advisory and must be clearly identified as such and preceded by the word, "Advisory" in all automated verbal transmissions (radio or phone line).
 - Advisory sensors may not be properly located in accordance with the siting criteria, FAA Order 6560.20, hence the weather information they provide may not be representative of prevailing conditions encountered by aircraft.
 - Advisory parameters may not adhere to the criteria (definitions, accuracy, reliability, etc.) identified in FAA Advisory Circular 150/5220-16.
- In accordance with the current revision of FAA Advisory Circular 150/5220-16, only non-Fed AWOS systems meeting the AWOS III (or better) criteria may be eligible for long-line dissemination of certified weather information (i.e. METAR information) nationally via the FAA network. Please refer to the advisory circular as additional criteria do apply.
- The AWOS-II is also certified to provide AWOS-A/V information (altimeter setting and visibility).
- The Belfort AWOS A and AWOS AV have been approved in accordance with revision D of FAA Advisory Circular 150/5220-16, Automated Weather Observing Systems (AWOS) for Non-Federal Applications, dated April 28, 2011.